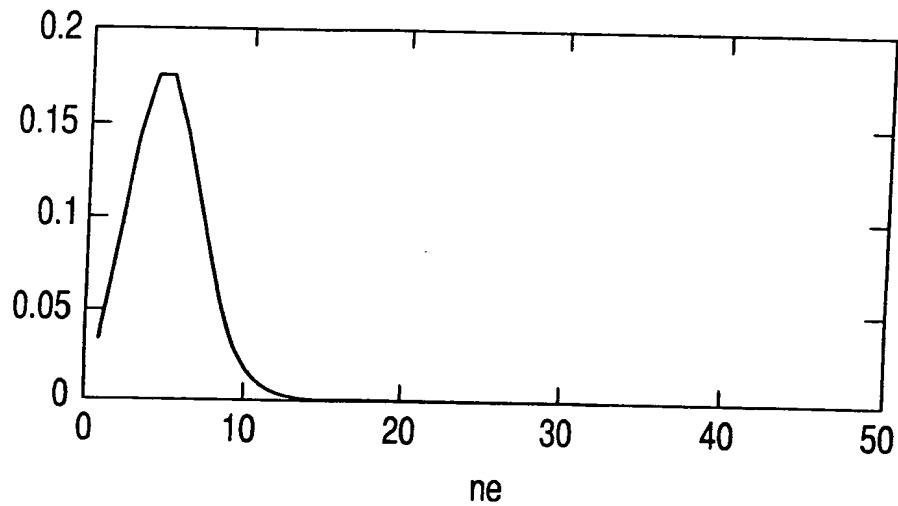


1/5

$ns := 500$ $BER := 0.01$ $NE := ns \cdot BER$
 $ne := 1, 2.. 50$

dpois (ne,NE)

Fig. 1



$ne := 15$

$D := .000085$

$NE_{low} := 0.5qchisq(D, 2ne)$

$NE_{low} = 4.56$

$NE_{high} := 0.5qchisq(1 - D, 2ne)$

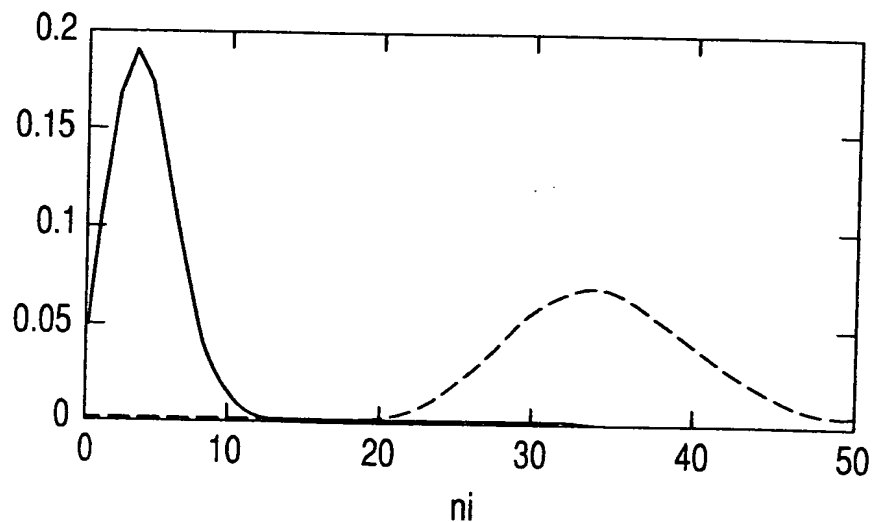
$NE_{high} = 34.085$

$ni := 1, 2.. 50$

dpois (ni,NE_{low})

dpois (ni,NE_{high})

Fig. 2



$D := 0.000085$ $ne := 1, 2.. 1000$ $2/5$

$$\text{bernornmpass}(ne, D) := \frac{2ne}{qchisq(1 - D, 2 \cdot ne)}$$

$$\text{bernornmfail}(ne, D) := \frac{2ne}{qchisq(D, 2ne)}$$

bernornmpass(ne,D)
bernornmfail(ne,D)

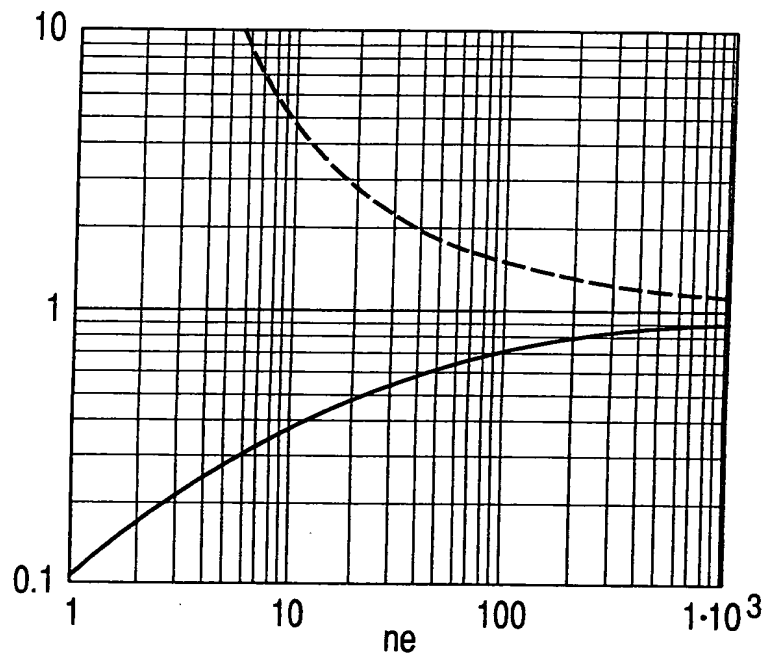


Fig. 3

$M := 1.5$ $D := 0.000085$ $ne := 1, 2.. 1000$

$$\text{berlimbad}_{\text{pass}}(ne, D) := 2 \cdot \frac{ne}{qchisq(1 - D, 2 \cdot ne)} \cdot M$$

$$\text{berlim}_{\text{fail}}(ne, D) := 2 \cdot \frac{ne}{qchisq(D, 2 \cdot ne)}$$

berlim_fail(ne,D)
berlimbad_pass(ne,D)
M

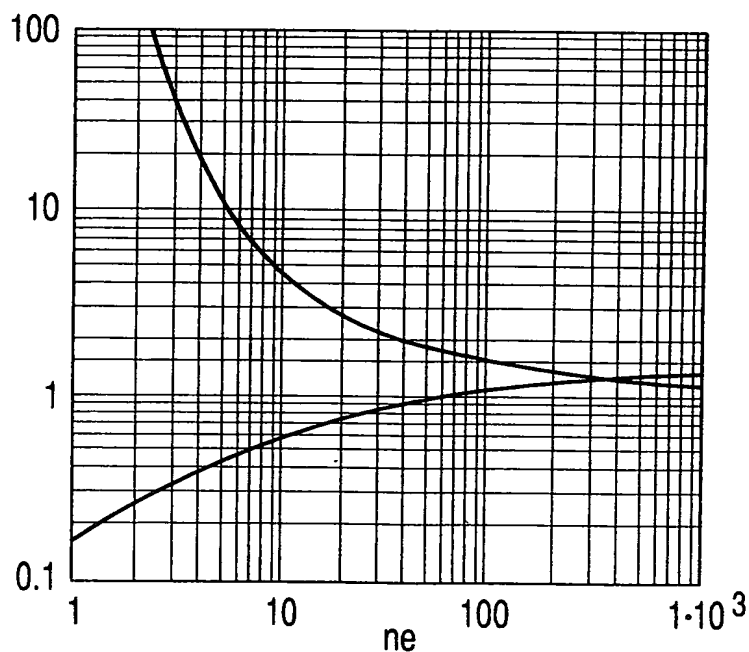


Fig. 4

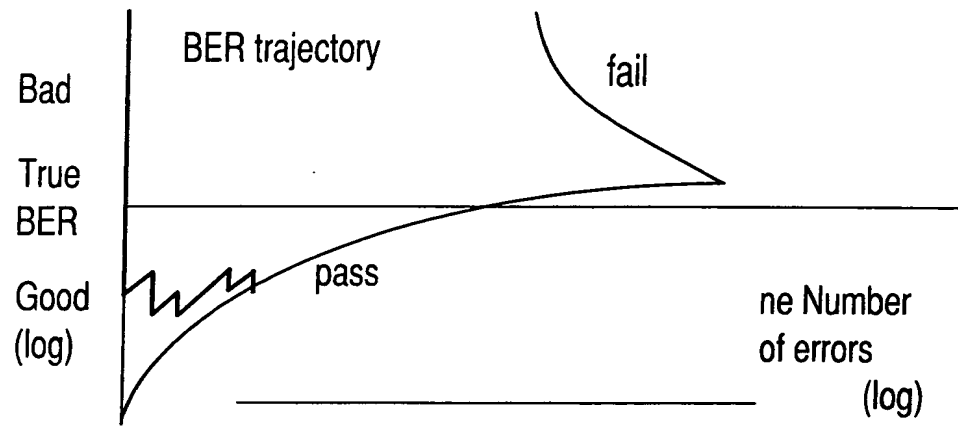


Fig. 5

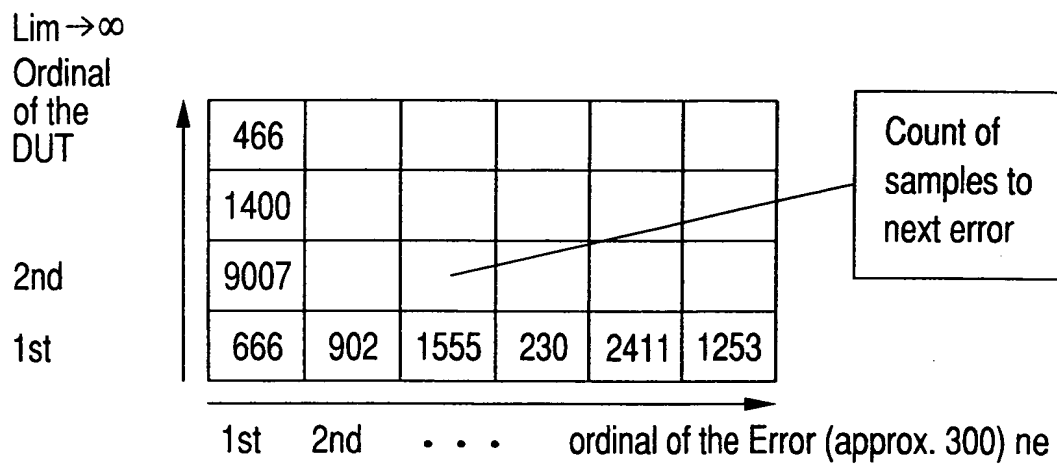


Fig. 6

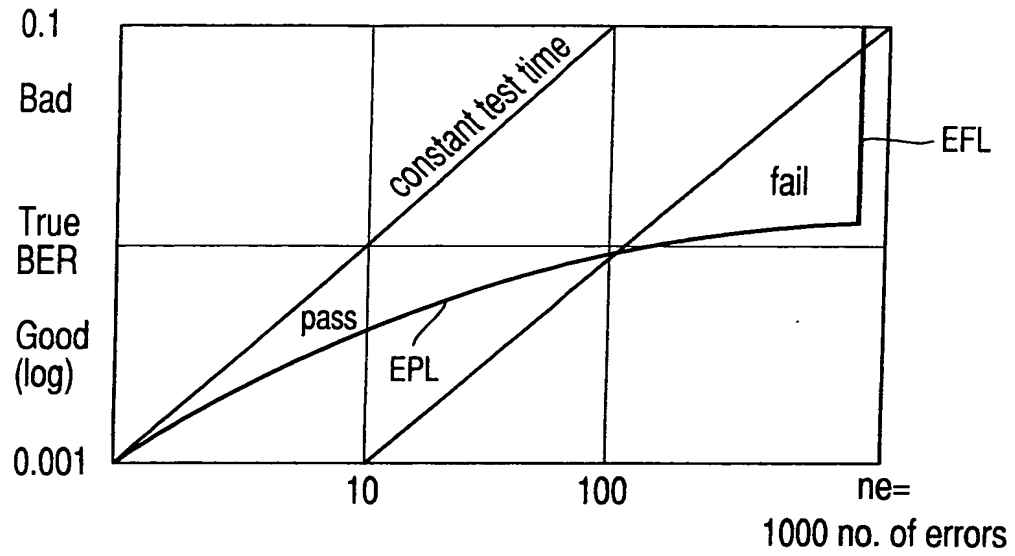


Fig. 7

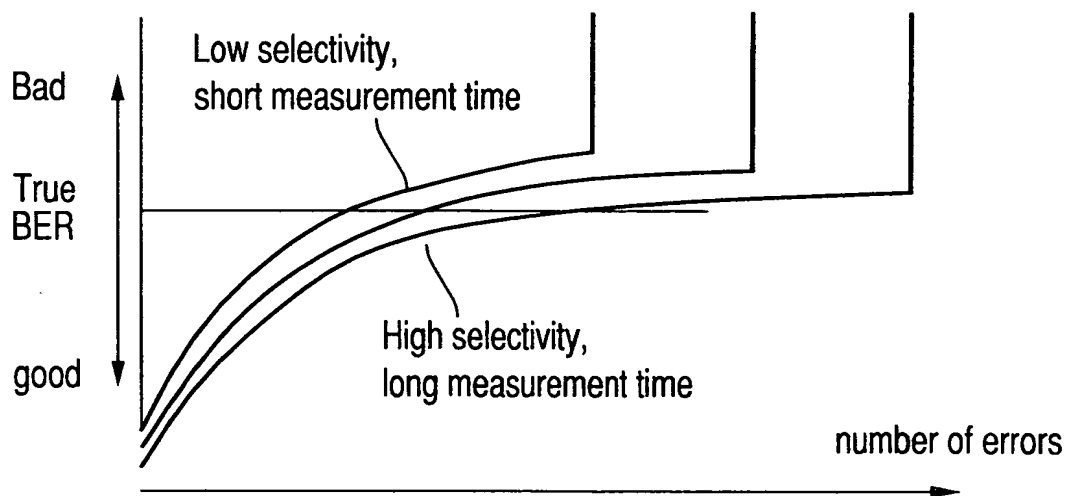


Fig. 8

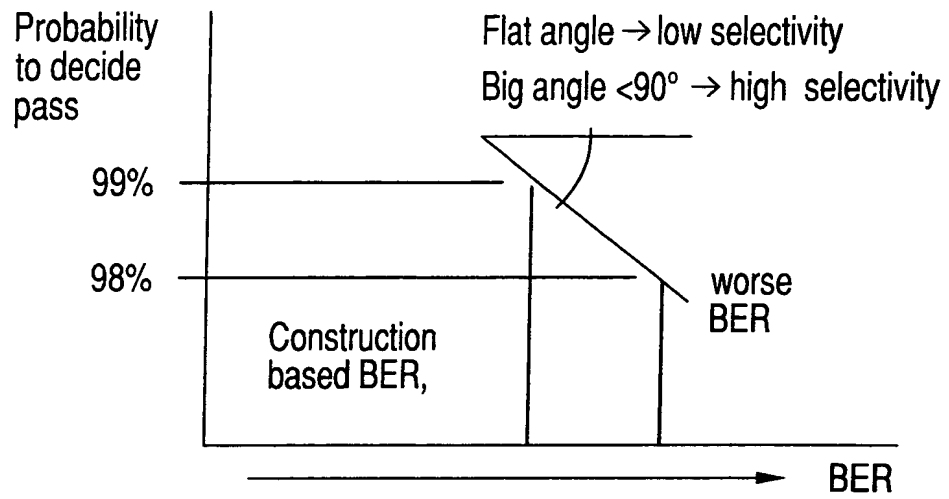


Fig. 9

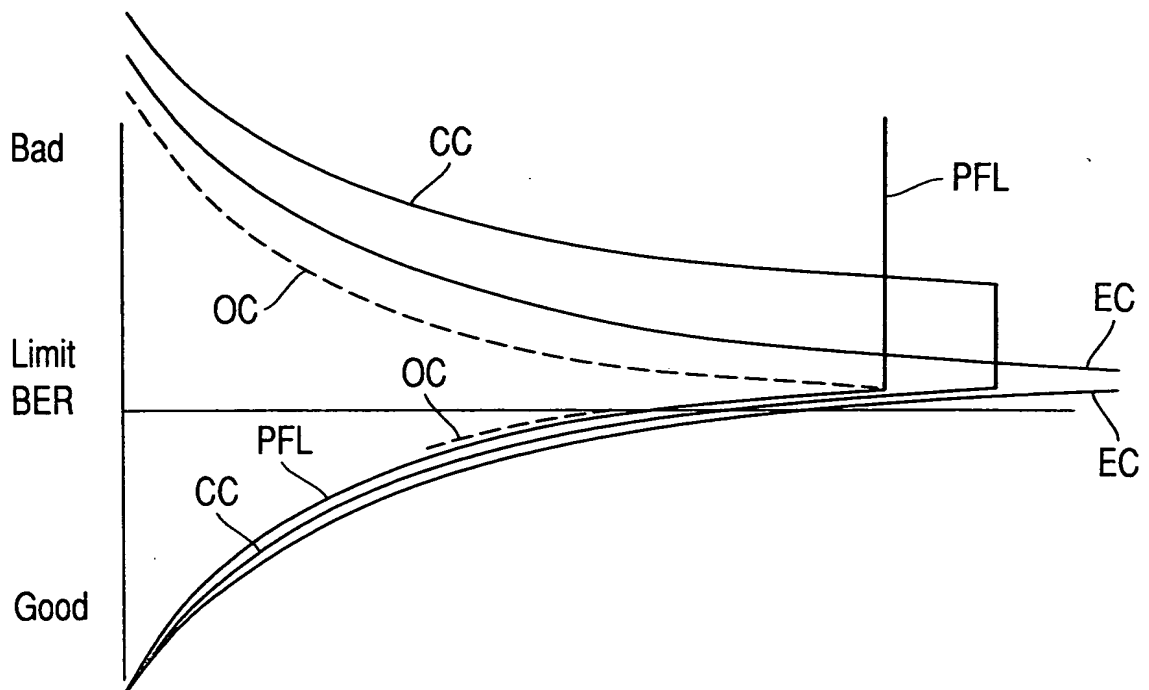


Fig. 10